

Commonwealth of Massachusetts Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

One Winter Street Boston, MA 02108 • 617-292-5500

Charles D. Baker Governor Matthew A. Beaton Secretary

Karyn E. Polito Lieutenant Governor Martin Suuberg Commissioner

Summary of Innovative/Alternative Technologies Approved for Use in Massachusetts and Under Review

As of March 2018

The inclusion in this table of URLs for I/A technology companies does not in any way constitute a recommendation or endorsement by MassDEP. For schematics of any technology, contact the manufacturer.

General Use
Provisional Use
Piloting Use
Remedial Use
I/A Technologies with Nitrogen Reduction Credit
Using a Technology Not Currently Approved for Use in Massachusetts

Certified for General Use

| Technology | Model(s) | Company | Technology Description | Approved Use & Approval Date |
|------------------------------|------------------------|---------|-----------------------------------|---|
| Composting Toilets | Compliant with Title 5 | Generic | Composting Toilet | Composting toilets as described in Title 5 (310 CMR 15.289(3) |
| Recirculating Sand Filter | Compliant with Title 5 | Generic | Nitrogen Reduction Sand Filter | Nitrogen Reduction For 550 gallons per day per acre: Effluent: TN = 25 mg/L, BOD5 = 30mg/L TSS=30 mg/L, pH: 6-9 For residential <2000 GPD: 50% SAS size reduction Approval: September 9, 2008 |

| Technology | Model(s) | Company | Technology Description | Approved Use & Approval Date |
|---------------------------------|---|--|--|---|
| Advantex Treatment System | AdvanTex AX20 AX100 AX20-RT AX25-RT | Orenco Systems, Inc. 814 Airway Avenue Sutherlin, OR 97479 | Secondary Treatment Unit: for BOD5 and TSS Removal Textile Filter with Aerobic Treatment Process | Secondary Treatment Unit: Effluent: BOD5 = 30m/L, TSS=30 mg/L, pH: 6-9 For resident <2000 GPD: 50% SAS size reduction Approval: April 19, |
| | | | | 2013 |
| Amphidrome Treatment System* | Amphidrome Process | F.R. Mahony & Associates, Inc. 273 Weymouth Street Rockland, MA 02370 | Secondary Treatment Unit: for BOD5 and TSS Removal. Submerged Attached-Growth Sequencing | Secondary Treatment Unit: Effluent: BOD5 = 30m/L, TSS=30 mg/L pH: 6-9 For resident <2000 GPD: 50% SAS reduction |
| | | | Bioreactor | Approval: February 19, 2013 |
| Bioclere* | 16, 22, 24, and 30 series | Aquapoint.3 LLC 39 Tarkiln Place New Bedford, MA 02745 | Secondary Treatment Unit: for BOD5 and TSS Removal. Trickling Filter | Secondary Treatment Unit: Effluent: BOD5 = 30m/L, TSS=30 mg/L pH: 6-9 For resident <2000 GPD: 50% SAS size reduction |
| | | | | Approval: April 2, 2015 |
| BioDiffuser and ARC Chambers | BioDiffuser 11" Standard, BioDiffuser 14" High Capacity, BioDiffuser 16" High Capacity, BioDiffuser 15" Narrow (Bio 2), BioDiffuser 22" Narrow (Bio 3), ARC 36, ARC 36HC, ARC 50, ARC 18, ARC 24, ARC 36 LP (3.8 inchinvert), and ARC 36 LP (8 inch-invert) | Infiltrator Water Technologies, LLC P.O. Box 768 4 Business Park Road Old Saybrook, CT 06475 | Alternative SAS (Disposal Only) Open-Bottom Leaching Unit | Alternate SAS (Disposal Only) Trench, bed, field, or gallery configurations: 40% reduction in size Effluent loading rates specified in Title 5 (310 CMR 15.242) Approval: June 12, 2015 |

| Technology | Model(s) | Company | Technology Description | Approved Use & Approval Date |
|-------------------------------------|---|---|---|---|
| Bio-Microbics MicroFAST* | FAST Treatment Systems with Nitrogen Reduction MicroFAST® 0.5, 0.75, 0.9, 1.5, 3.0, 4.5, 9.0; HighStrengthFAST® 1.0, 1.5, 3.0, 4.5, 9.0; NitriFAST® 0.5, 0.75, 1.0, 1.5, 3.0, 4.5, 9.0 | Bio-Microbics, Inc. 8450 Cole Parkway Shawnee, KS 66227 | Secondary Treatment Unit: for BOD5 and TSS Removal. Aerobic Treatment Unit | Secondary Treatment Unit Effluent: BOD5 = 30m/L, TSS=30 mg/L pH: 6-9 For resident <2000 GPD: 50% SAS size reduction Approval: February 19, 2013 |
| BUSSE-MF System | Models B-220, 440, 660, 880, 1000, 1500, 2000 | Busse Green Technologies Inc. 1101 South Euclid Ave. Oak Park, IL 60304 | Secondary Treatment Unit: for BOD5 and TSS Removal: Activated sludge process and a membrane process (biological-filtration) | Secondary Treatment Unit Effluent: BOD5 = 30m/L, TSS=30 mg/L pH: 6-9 For resident <2000 GPD: 50% SAS size reduction Approval: February 19, 2013 |
| Clean Solution Treatment System* | 250, 250 Integral, 250PT, 250ST3, 250ST4, 600, 1000, 1750, 2500, 3100 and 10000 | Wastewater Alternatives, Inc. 2 Whitney Road, Suite 10 Concord, NH 03301 | Secondary Treatment Unit: for BOD5 and TSS Removal: Biological Treatment Unit | Secondary Treatment Unit Effluent: BOD5 = 30mg/L, TSS=30 mg/L pH:6-9 For residential <2,000 GPD: 50% SAS size reduction Approval: April 30, 2013 |
| Cultec Chambers | EZ-24; Contactor C4; Recharger 180, 280 and 330XL | Cultec, Inc. PO Box 280, 878 Federal Road Brookfield, CT 06804 | Alternative SAS (Disposal Only) Open-Bottom Leaching Unit with Non-Woven Geosynthetic Filter | Alternate SAS (Disposal Only) Trench, Bed, Field, or Gallery configurations: 40% reduction in size Effluent loading rates specified in Title 5 (310 CMR 15.242) Approval: March 31, 2016 |

| Technology | Model(s) | Company | Technology Description | Approved Use & Approval Date |
|---|---|--|--|---|
| Cur-Tech CLT | CLT-12 and CLT-18 | Cur-Tech LLC 23 Ryan Street Stamford, CT 06907 | Alternative SAS (Disposal Only) Open-Bottom Leaching Unit with Plastic Fin | Alternative SAS (Disposal Only) Trench, Bed, Field, or Gallery configurations: 40% reduction in size Effluent loading rates specified in Title 5 (310 CMR 15.242) Approval: March 31, 2017 |
| Eljen In-Drain Systems | Type B43 and A42 | Eljen Corporation 125 McKee Street East Hartford, CT 06108 | Alternative SAS (Treatment with Disposal) Modular Absorption System | Alternate SAS (Treatment with Disposal) Trench, Bed, Field, or Gallery configurations: 40% reduction in size Effluent loading rates specified in Title 5 (310 CMR 15.242) Approval: March 19, 2013 |
| Eljen Mantis M5 System | Mantis 5.1, Mantis 5.1 LowPro (LP), Mantis 5.2, Mantis 5.2 LowPro (LP) | Eljen Corporation 125 McKee Street East Hartford, CT 06108 | Alternative SAS (Disposal Only) Passive Graveless Wastewater Disposal System | Alternate SAS (Disposal Only) Trench, Bed, Field, or Gallery configurations: 40% reduction in size Effluent loading rates specified in Title 5 Approval: August 21, 2014 |
| EZ Flow Polystyrene Aggregate System | EZ1202V, EZ1203T, EZ1203H, EZ1402V, EZ1203 Bed, EZ1203 Mound | Infiltrator Water Technologies, LLC P.O. Box 768 4 Business Park Road Old Saybrook, CT 06475 | Alternative Aggregate | Alternate Aggregate Trench, Bed, Field or Gallery configurations. No SAS size reduction. Effluent loading rates specified in Title 5 Approval: June 12, 2015 |

| Technology | Model(s) | Company | Technology Description | Approved Use & Approval Date |
|--|--|--|--|--|
| Geoflow Subsurface Drip Wastewater Disposal System | Classic WF 16 and WF Special Order and WFPC 16 and WFPC Special Order series | Geoflow Inc. 506 Tamal Plaza Corte Madera, CA 94250 | Pressure Distribution System (Subsurface) | Dispersal Unit Equivalent to pressure distribution. Can be placed in A, B, or C horizon a minimum of six inches below grade. The System does not require a five foot over dig as indicated at 310 CMR 15.255(5). For residential systems <2,000 GPD, can reduce the size of the SAS by up to 50% Approval: March 20, 2015 |
| Hoots Aerobic Systems | Hoots Aerobic H- Series H-500A, H-600A, H- 750A and H-1000A | Hoots Aerobic Systems Inc. 2885 Highway 14 East Lake Charles, LA 70607 | Secondary Treatment Unit: BOD5 and TSS Removal: Aeration device with indigenous bacteria | Secondary Treatment Unit Effluent: BOD5 = 30mg/L; TSS=30 mg/L; pH: 6-9 Approval: February 19, 2013 |
| Infiltrator Chambers | Quick4; Infiltrator 3050 (Storm Tech SC-740); Equalizer 24; Equalizer 36 | Infiltrator Water Technologies, LLC P.O. Box 768 4 Business Park Road Old Saybrook, CT 06475 | Alternative SAS (Disposal Only) Open bottom leaching unit molded from polyolefin resin. It can be installed without aggregate or distribution pipe as an absorption trench/bed/field | Alternate SAS (Disposal Only) Trench, Bed, Field, or Gallery configurations: 40% reduction in size Effluent loading rates specified in Title 5 (310 CMR 15.242). Approval: June 12, 2015 |

| Technology | Model(s) | Company | Technology Description | Approved Use & Approval Date |
|---|---|--|---|--|
| Infiltrator TW and IM Series Septic Tanks | TW-1050 (1,050 gallon), TW-1250 (1,250 gallon), TW- 1500 (1,500 gallon), IM-1060 (1,094 gallon), and IM-1530 (1,509 gallon) | Infiltrator Water Technologies, LLC P.O. Box 768 6 Business Park Road Old Saybrook, CT 06475 | Polyolefin septic tanks TW-series septic tanks are rotational molded multi-layered corrugated polyethylene or polypropylene. IM-series tanks are injection molded single layer corrugated polyethylene or polypropylene | Equivalent to conventional septic tank. Exempt from requirements for 3 manholes, and fourfoot liquid depth. Two-compartment tank exempt from requirement for U-shaped pipe interconnection. Approval: June 12, 2015 |
| JET Inc. 1500 Series BAT Media Wastewater Treatment* | J-500, J-750, J-1000, J-1250, and J-1500 J-500-PLT & J-800- PLT | Clearwater Recovery 175 Spring Street Rockland, MA 02370 | Secondary Treatment Unit: BOD5 and TSS Removal: Aerobic treatment process with primary settling zone, aerobic zone with fixed media, and a secondary clarifying zone to treat wastewater | Secondary Treatment Unit Effluent: BOD5 = 30mg/L TSS=30 mg/L; pH:6-9 For residential <2,000 GPD: 50% SAS reduction for system Approval: August 31, 2017 |
| Mantis M5 System | Mantis 5.1, Mantis 5.1 LowPro (LP), Mantis 5.2, and Mantis 5.2 LowPro (LP) Residential only <2,000 GPD | Eljen Corporation 125 McKee Street East Hartford, CT 06108 | Alternative SAS (Disposal Only) Passive gravel-less wastewater disposal system. Filter support modules wrapped in Bio-Mat, geotextile fabric and surrounded by C-33 sand | Alternative SAS (Disposal-Only) Alternative SAS in trench, bed, or gallery configurations with 40% reduction in size with effluent loading rates specified in Title 5 Approval: August 21, 2014 |

| Technology | Model(s) | Company | Technology Description | Approved Use & Approval Date |
|--|---|---|--|---|
| Perc-Rite Drip System | QM (WD), ASD-15, ASD-25, and ASD-40 | American Manufacturing Co, Inc. PO Box 549 Manassas, VA 20108 | Alternative SAS Subsurface drip dispersal) | Dispersal Unit Equivalent to pressure distribution. Can be placed in A, B, or C horizon a minimum of six inches below grade. The System does not require a five foot over dig as indicated at 310 CMR 15.255(5). For residential systems <2,000 GPD, can reduce the size of the SAS by up to 50% Approval: November 23, 2016 |
| Polyethylene Septic Tanks | 1,000 gallons; 1,250 gallons; 1,500 gallons low profile one/two compartment with gasket and tee | Norwesco, Inc./Snyder Industries PO Box 439 St Bonifacius, MN 55375-0439 | Low profile polyethylene septic tanks with gasket and tee | Equivalent to conventional septic tank. Exempt from requirements for 3 manholes, four-foot liquid depth, and pumping on an annual basis. Two-compartment tank exempt from requirement for U-shaped pipe interconnection. Approval: March 19, 2013 |
| Presby Enviro-Septic Wastewater Treatment System | Enviro-Septic | Presby Environmental Inc. 143 Airport Road Whitefield, NH 03598 | Alternative SAS: Patented Sand Filter Perforated corrugated pipe wrapped with geotextile fabric, placed in a sand bed * Bed installations only | Alternative SAS - Patented Sand Filter 40% reduction in size of SAS with effluent loading rates specified in Title 5 (310 CMR 15.242). Approval: March 19, 2013 |

| Technology | Model(s) | Company | Technology Description | Approved Use & Approval Date |
|---|---|--|--|---|
| Presby Advanced Enviro-Septic (Alternative SAS) Wastewater Treatment System | Advanced Enviro- Septic | Presby Environmental Inc. 143 Airport Road Whitefield, NH 03598 | Alternative SAS: Patented Sand Filter - Treatment with Disposal Perforated corrugated pipe wrapped with geotextile fabric, placed in a sand bed * Bed installations only | Alternative SAS with Secondary Treatment for 40% size reduction with the effluent loading rates specified in Title 5 (310 CMR 15.242). Approval: August 12, 2013 |
| Presby Advanced Enviro-Septic (Alternative SAS with Treatment) Wastewater Treatment System | Advanced Enviro- Septic (with 12 inches C-33 sand) <880 GPD, residential only | Presby Environmental Inc. 143 Airport Road Whitefield, NH 03598 | Alternative SAS: Patented Sand Filter - Treatment with Disposal Perforated corrugated pipe wrapped with geotextile fabric, placed in a sand bed, with 12 inches of C-33 sand below pipe units. *Bed installations only | Alternative SAS with Secondary Treatment 50% reduction in size of SAS with the effluent loading rates specified in Title 5 (310 CMR 15.242) Effluent limits: BOD: 30 mg/L; TSS: 30 mg/L; pH: 6 to 9 Turbidity: <40 NTU; DO: >2 mg/L Approval: December 17, 2013 |
| ProStep Effluent Pumping System | ProStep PSA-X and PSB-X, and Biotube® Pump Vault PVU-X and PV-X | Orenco Systems, Inc. 814 Airway Ave. Sutherlin, OR 97479 | Effluent filtering and pumping with pump vault, placed in outlet end of septic tank | Equivalent to conventional pumping system Approval: March 20, 2015 |
| Roth Global SEPTECH** ** this replaces FRALO SEPTEC poly tanks | Roth Multi-Tank Model RMT 1060, 1250, and 1500 | Roth Global Plastics, Inc. PO Box 2451 One General Motors Drive Syracuse, NY 13206 | Single or Two Compartment Polyethylene Septic Tanks Installed between building sewer and distribution box and SAS or between building sewer and DEP approved I/A treatment unit. | Equivalent to conventional septic tank Approval: March 20, 2015 |

| Technology | Model(s) | Company | Technology Description | Approved Use & Approval Date |
|---|---|--|---|---|
| RUCK | Systems less than 2000 gpd | Innovative RUCK Systems, Inc.362 Gifford Street Falmouth, MA 02540 | Filter | Equivalent to conventional septic tank Exempt from three manholes, four-foot liquid depth, and annual pumping requirements. The two compartment are exempt from U-shaped pipe interconnection requirement. Shall not be installed in a vehicle traffic area Approval: March 20, 2015 |
| SeptiTech Treatment Systems by Bio- Microbics of Maine, Inc. | SeptiTech Models 400, 550, 750, 1200, 1500, 3000 and SeptiTech Engineered Systems | SeptiTech, Inc. 70 Commercial Street, Suite 3 Lewiston, ME 04240 | Secondary Treatment Unit Recirculating Trickling Filter. Installed after a T5 septic tank with effluent tee filter and prior to T5 SAS | Secondary Treatment Unit Effluent: BOD5 = 30mg/L TSS=30 mg/L; pH:6-9 For residential <2,000 GPD: 50% SAS size reduction Approval: July 8, 2013 |
| Simple-Septic Wastewater Treatment System | Simple-Septic | Presby Environmental Inc. 143 Airport Road Whitefield, NH 03598 | Alternative SAS: Patented Sand Filter - Treatment with Disposal Perforated corrugated pipe wrapped with geotextile fabric, placed in a sand bed | Alternative SAS - Patented Sand Filter Treatment with Disposal 40% reduction in size of SAS with the effluent loading rates specified in Title 5 Approval: September 11, 2014 |

| Technology | Model(s) | Company | Technology Description | Approved Use & Approval Date |
|---|--|--|---|--|
| Singulair Bio-Kinetic Wastewater Treatment System | Singulair 960 -500, 600, 750, 1000, 1250 and 1500. Singulair TNT-500, 600, 750, 1000, 1250 and 1500. Singulair Green (plastic tank): Green 960-500, 600; Green TNT-500, 600 | NORWECO, Inc. 220 Republic Street Norwalk, OH 44857 | Secondary Treatment Unit (STU) Three compartment tank with a pretreatment chamber, aerobic chamber, and settling/filtration chamber with Bio- Kinetic filter unit. TNT models remove nitrogen using timed aerobic and anaerobic periods in the second chamber. Installed between building sewer and SAS | Secondary Treatment Unit Effluent: BOD5 = 30mg/L TSS=30 mg/L; pH:6-9 For residential <2,000 GPD: 50% SAS size reduction Approval: February 26, 2013 |
| Sludgehammer | Sludgehammer ABG, models S-46 and S- 86 | Sludgehammer Group Ltd 336 Division Road Petoskey, MI 49770 | SAS Aeration with Bacterial Augmentation | To enhance and maintain performance of properly functioning SAS where conventional system with reserve area exists or can be built on-site in full compliance with T5. No SAS size reduction. Flow <2,000 GPD Approval: April 2, 2015 |
| Smith & Loveless FAST System | Modular FAST | Smith & Loveless, Inc. 14040 Santa Fe Trail Drive Lenexa, KS 66215 | Secondary Treatment Unit: Aerobic treatment unit with submerged fixed film media. | Effluent: BOD5 = 30mg/L TSS=30 mg/L; pH:6-9 No reduction in size of SAS allowed Approved where conventional system with reserve area exists or can be built on-site in full compliance with T5 Flow:2,000 to <10,000 GPD Approval: November 5, 2015 |

| Technology | Model(s) | Company | Technology Description | Approved Use & Approval Date |
|--------------------|--------------------------|---|---|---|
| Waterloo Biofilter | Biofilter <10,000 GPD | Waterloo Biofilter System, Inc. 143 Dennis Street Rockwood, NT, N0B 2K0 | Secondary Treatment Unit: Absorbent Trickling Filter with optional recirculation. Installed following a T5 septic tank with a screened pump vault or a T5 septic tank and separate pump tank, discharges to SAS | Effluent: BOD5 = 30mg/L TSS=30 mg/L; pH:6-9 For residential <2,000 GPD: 50% SAS size reduction Approval: November 1, 2012 |

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Certified for Provisional Use

| Technology | Model(s) | Company | Technology Description | Approved Use |
|------------|---|---|---|---|
| Advantex | Advantex AX20, AX20-RT, AX25-RT, AX100 <10,000 GPD | Orenco Systems, Inc. 814 Airway Avenue Sutherlin, OR 97479 | STU and Nitrogen reduction Two compartments UV protected fiberglass reinforced plastic treatment tank and aerobic textile filter module with recirculation | Nitrogen reduction BOD <30 mg/L; TSS <30 mg/L; pH 6-9 For new construction <2,000 GPD subject to Nitrogen Loading: 660 GPD/acre w/ TN <19 mg/l 550 GPD/acre w/ TN <25 mg/l For systems >2,000 to <10,000 GPD: TN <25 mg/L Approval: August 31, 2015 |
| Amphidrome | Amphidrome Process <10,000 GPD | F.R. Mahony & Associates, Inc. 273 Weymouth Street Rockland, MA 02370 | STU and Nitrogen reduction Submerged Attached-Growth Sequencing Bioreactor consisting of anoxic/equalization tank, reactor tank with granular biological filter, alternating aerobic/anaerobic cycles, and a clear well | Nitrogen reduction BOD <30 mg/L; TSS <30 mg/L; pH 6-9 For new construction <2,000 GPD subject to Nitrogen Loading: 660 GPD/acre w/ TN <19 mg/l 550 GPD/acre w/ TN <25 mg/l For systems >2,000 to <10,000 GPD: TN <25 mg/L Approval renewed: October 15, 2015 |

| Technology | Model(s) | Company | Technology Description | Approved Use |
|---|---|---|--|---|
| Bioclere NOTE : Bioclere has reached the maximum allowed installations under this Approval only. | 16/12, 16/15, 16/19, 16/22, 16/25 and 24 Series <2,000 GPD | Aquapoint.3 LLC 39 Tarkiln Place New Bedford, MA 02745 | STU and Nitrogen reduction: Trickling filter in fiberglass tank with clarifier and recycle of settled solids to septic tank. Chemical addition if required for carbon source, alkalinity and pH control, and/or phosphorus precipitation. Installed in series between T5 septic tank and SAS | Nitrogen reduction BOD <30 mg/L; TSS <30 mg/L; pH 6-9 For new construction <2,000 GPD subject to Nitrogen Loading: 660 GPD/acre w/ TN <19 mg/l 550 GPD/acre w/ TN <25 mg/l Approval: September 17, 2015. |
| Bioclere | 24, 30, and 36 Series 2,000 GPD to <10,000 GPD | Aquapoint.3 LLC 39 Tarkiln Place New Bedford, MA 02745 | STU and Nitrogen reduction: Trickling filter in fiberglass tank with clarifier and recycle of settled solids to septic tank. Chemical addition if required for carbon source, alkalinity and pH control, and/or phosphorus precipitation. Installed in series between T5 septic tank and SAS | Nitrogen reduction BOD5, TSS, Nitrogen, and Phosphorus reduction For systems >2,000 to <10,000 GPD: Effluent limit: TN <25 mg/L Effluent limits in a NSA: BOD <30 mg/L; TSS <30 mg/L; pH 6-9 Approval: October 29, 2015 |

| Technology | Model(s) | Company | Technology Description | Approved Use |
|--|--|--|---|---|
| FAST with Nitrogen Reduction by Bio- Microbics, Inc. | MicroFAST with Nitrogen Reduction: MicroFAST 0.5, 0.75, 0.9, 1.5, 3.0, 4.5, and 9.0; HighStrengthFAST 1.0, 1.5, 3.0, 4.5, and 9.0; and NitriFAST 0.5, 0.75, 1.0, 1.5, 3.0, 4.5, and 9.0. Residential >2,000 to <10,000 GPD Non-residential <10,000 GPD | Bio-Microbics, Inc. 8450 Cole Parkway Shawnee, KS 66227 | STU and Nitrogen reduction: Aerobic submerged fixed film media unit with passive recycle to anoxic zone for denitrification. Chemical feed for alkalinity control and carbon source if required. Installed between building sewer and T5 SAS, inside second compartment of a T5 septic tank. Models for larger flows installed in a secondary tank after a T5 septic tank (with recycle to septic tank for denitrification) | BOD5, TSS, and Nitrogen reduction For new construction <2,000 GPD subject to Nitrogen Loading: Non-residential- can increase N loading limit to 550 GPD/acre w/ TN <25 mg/l For systems >2,000 to <10,000 GPD: Effluent limit: TN <25 mg/L Effluent limits in a NSA: BOD <30 mg/L TSS <30 mg/L TSS <30 mg/L pH 6-9 Increase in Nitrogen Loading limit to 550 GPD/acre allowed w/ TN <25 mg/L May be substituted for RSF |
| Nitrex | Nitrex Filters <10,000 GPD | Lombardo Associates, Inc 49 Edge Hill Road Newton, MA 02467 | STU and Nitrogen reduction Filter with nitrate reactive media. Includes effluent recycle over media and alkalinity feed if required. Installed in series after approved I/A technology providing nitrifying pretreatment and | Nitrogen reduction BOD <30 mg/L; TSS <30 mg/L; pH 6-9 For new construction <2,000 GPD subject to Nitrogen Loading: 660 GPD/acre w/ TN <19 mg/l 550 GPD/acre w/ TN <25 mg/l For systems >2,000 to <10,000 GPD: TN <25 mg/L Approval: May 22, 2014 |

| Technology | Model(s) | Company | Technology Description | Approved Use |
|---|--|---|---|---|
| SeptiTech Treatment Systems by Bio- Microbics of Maine, Inc. | 400N, 550N, 750N, 1200N, 1500N, 2500N, 3000N, and SeptiTech Engineered Systems | SeptiTech, Inc 220 Lewiston Road Gray, ME 04039 | Secondary Treatment Unit: Enhanced recirculating trickling filter with anoxic phase. Two compartment tank- 1st anoxic compartment and 2nd contains trickling filter media with recirculation within trickling filter and to anoxic tank. System installed between building sewer and SAS | Nitrogen reduction BOD <30 mg/L; TSS <30 mg/L; pH 6-9 For new construction <2,000 GPD subject to Nitrogen Loading: 660 GPD/acre w/ TN <19 mg/l 550 GPD/acre w/ TN <25 mg/l For systems >2,000 to <10,000 GPD: TN <25 mg/L Approval: November 20, 2017 |
| Singulair | Singulair 960 -500, 960-600, 960-750, 960-1000, 960-1250 and 960-1500. Singulair TNT-500, TNT-600, TNT-750, TNT-1000, TNT- 1250 and TNT-1500. Singulair Green (plastic tank): Green 960-500, 960 -600, Green TNT-500 and Green TNT-600 | NORWECO, Inc. 220 Republic Street Norwalk, OH 44857 | Secondary Treatment Unit: Extended aeration, activated sludge, and filtration in three compartment tank. 1st - anaerobic pretreatment chamber; 2nd - aerobic chamber; 3rd – settling and clarification chamber with activated sludge recycle to aerobic chamber; followed by recirculation chamber with 12- 18% recycle to 1st chamber. System installed between building sewer and SAS. Systems >1,000 GPD require T5 septic tank for pretreatment | BOD, TSS, and Nitrogen Reduction For new construction <2,000 GPD subject to Nitrogen Loading: Residential- can increase N loading limit to 660 GPD/acre w/ TN <19 mg/l Any facility- can increase N loading limit to 550 GPD/acre w/ TN <25 mg/l Approval: October 11, 2017 |

| Technology | Model(s) | Company | Technology Description | Approved Use |
|----------------------------------|-------------------------------------|---|--|---|
| Smith & Loveless Modular FAST | Modular FAST 2,000 to 10,000 gpd | Smith & Loveless, Inc 14040 Santa Fe Trail Drive Lenexa, KS 66215 | Aerobic treatment unit with fixed film submerged media and optional denitrification components (recycle to septic tank or anoxic tank). Installed between T5 septic tank and SAS | BOD, TSS, and Nitrogen Reduction Effluent limits in a NSA: BOD <30 mg/L; TSS <30 mg/L; pH 6-9 Effluent limit for all systems: TN <25 mg/L Increase in Nitrogen Loading limit to 550 GPD/acre allowed w/ TN <25 mg/L May be substituted for RSF Approval: May 22, 2014 |
| Waterloo Biofilter | Biofilter < 2,000 gpd | Waterloo Biofilter System, Inc 143 Dennis Street Rockwood, ON N0B 2K0 | Absorbent Trickling Filter with min. 50% recycle to septic tank for denitrification. Installed following a T5 septic tank with a screened pump vault or a T5 septic tank and separate pump tank, discharges to SAS | BOD, TSS, and Nitrogen Reduction For new construction <2,000 GPD subject to Nitrogen Loading: Residential- can increase N loading limit to 660 GPD/acre w/ TN <19 mg/l; Any facility- can increase N loading limit to 550 GPD/acre w/ TN <25 mg/l Approval: May 22, 2014 |
| Waterloo Biofilter | Biofilter 2,000 to <10,000 gpd | Waterloo Biofilter System, Inc 143 Dennis Street Rockwood, ON N0B 2K0 | Absorbent Trickling Filter with min. 50% recycle to septic tank for denitrification. Installed following a T5 septic tank with a screened pump vault or a T5 septic tank and separate pump tank, discharges to SAS | BOD, TSS, and Nitrogen Reduction Effluent limits in a NSA: BOD <30 mg/L; TSS <30 mg/L; pH 6-9 Effluent limit for all systems: TN <25 mg/L Increase in Nitrogen Loading limit to 550 GPD/acre allowed w/ TN <25 mg/L May be substituted for RSF Approval: May 22, 2014 |

Approved for Piloting

| Technology | Model(s) | Company | Technology Description | Approved Use |
|-----------------------------|---|--|---|--|
| BioBarrier MBR and HSMBR | BioBarrier MBR models 0.5-N, 1.0-N, 1.5-N, 2.0-N, and BioBarrier HSMBR 1.5-SN, 1.5-DN, 3.0- SN, 3.0-DN, 4.5-SN, 4.5-DN, 6.0-SN, 6.0- DN, 9.0-SN, 9.0-DN <10,000 GPD | Biomicrobics Inc. 8450 Cole Parkway Shawnee, KS 66227 | Secondary Treatment Unit: Primary sedimentation, anaerobic, and aerobic compartments with a membrane bioreactor (MBR) and recirculation | BOD¬5, TSS, fecal coliform, and Nitrogen Reduction Effluent Limits: BOD5 <30 mg/l; TSS <30 mg/l; TSS <30 mg/l Turbidity <40 NTU For new construction <2,000 GPD subject to Nitrogen Loading: Residential- can increase N loading limit to 660 GPD/acre w/ TN <19 mg/l Non-residential - can increase N loading limit to 550 GPD/acre w/ TN <25 mg/l Exempt from requirements for T5 compliant septic tank. |
| ECOPOD - N | E50-N, E60-N, E75- N, E100-N, E150-N <1,500 GPD | Delta Environmental - Pentair Water 8274 Florida Blvd Denham Springs, LA 70726 | Aerobic and anaerobic chambers with recirculation and attached growth media | BOD5, TSS, and Nitrogen Reduction Effluent Limits: BOD5 <30 mg/l TSS <30 mg/l Turbidity <40 NTU For new construction <2,000 GPD subject to Nitrogen Loading: Residential- can increase N loading limit to 660 GPD/acre w/ TN <19 mg/l Non-residential- can increase N loading limit to 550 GPD/acre w/ TN <25 mg/l; Exempt from requirements for T5 compliant septic tank . Approval: August 21, 2014 |

| Technology | Model(s) | Company | Technology Description | Approved Use |
|---|----------------------------------|---|--|--|
| Fuji Clean USA | CEN5, CEN7, CEN10 <900 GPD | Fuji Clean USA, LLC 41-2 Greenwood Road Brunswick, Maine 04011 | Secondary Treatment Unit: Sedimentation, aerobic and anaerobic chambers with recirculation and attached growth media | BOD5, TSS, and Nitrogen Reduction Effluent Limits: BOD5 <30 mg/l; TSS <30 mg/l Turbidity <40 NTU For new construction <2,000 GPD subject to Nitrogen Loading: Residential- can increase N loading limit to 660 GPD/acre w/ TN <19 mg/l Non-residential - can increase N loading limit to 550 GPD/acre w/ TN <25 mg/l; Exempt from requirements for T5 compliant septic tank Approval: November 3, 2015 |
| GPC Filter | GPC Filter <10,000 GPD | Ground Penetrating Carbon, Inc. 205 Worcester Court Falmouth, MA 02540 | Stratified bottom drained sand filter treatment system with carbon addition | BOD, TSS, and Nitrogen Reduction Approval: December 8, 2014 |
| Hydro-Kinetic Wastewater Treatment System | Model 600 FEU <600 GPD | NORWECO, Inc. 220 Republic Street Norwalk, OH 44857 | Extended aeration and attached growth processes with anoxic tank | BOD5, TSS, and Nitrogen Reduction Effluent Limits: BOD5 <30 mg/l; TSS <30 mg/l; TSS <30 mg/l Turbidity <40 NTU For new construction <2,000 GPD subject to Nitrogen Loading: Residential- can increase N loading limit to 660 GPD/acre w/ TN <19 mg/l Non-residential - can increase N loading limit to 550 GPD/acre w/ TN <25 mg/l Exempt from requirements for T5 compliant septic tank Approval: August 23, 2013 |

| Technology | Model(s) | Company | Technology Description | Approved Use |
|------------------|---|---|--|--|
| PhosRID | PhosRID Phosphorus Removal System <10,000 GPD | Lombardo Associates, Inc. 49 Edge Hill Road Newton, MA 02467- 1170 | Reductive Iron Dissolution (RID) media anaerobic upflow filter followed by oxygenation filter To reduce total phosphorus | Phosphorus removal Approval: February 24, 2014 |
| RetroFAST System | Models 0.15, 0.25, 0.375 <2,000 GPD Residential strength | Bio-Microbics, Inc. 8450 Cole Parkway Shawnee, KS 66227 | SAS remediation by enhanced aerobic attached growth treatment in existing septic tank | SAS remediation BOD5 and TSS removal -Separation to GW shall not be less than 2/3 ft -Size of SAS shall not be <50% of T5 requirements Approval: June 5, |
| RUCK | CFT System <10,000 GPD | North Coast Technologies, LLC 200 Main Street, Suite 201 Falmouth, MA 02540 | Aerobic RUCK filter followed by anaerobic mixing chamber (with carbon addition) for denitrification | BOD5, TSS, and Nitrogen Removal For new construction <2,000 GPD subject to Nitrogen Loading: Residential- can increase N loading limit to 660 GPD/acre w/ TN <19 mg/l Non-residential - can increase N loading limit to 550 GPD/acre w/ TN <25 mg/l Approval: December 11, 2012 |
| Waterloo EC-P | Waterloo EC-P <10,000 GPD | Waterloo Biofilter System, Inc 143 Dennis Street, P.O. Box 400 Rockwood, ON N0B 2K0 | Precipitation of Phosphorus with Iron | Phosphorus reduction Approval: March 19, 2014 |

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Approved for Remedial Use

| Technology | Model(s) | Company | Technology Description | Approved Use |
|--|--|--|---|--|
| Composting Toilets | Compliant with Title 5 | Generic | Composting Toilet | Composting toilets as described in Title 5 (310 CMR 15.289(3)) |
| Bottomless Sand Filters | Compliant with Title 5 <880 GPD Residential only | Generic | Sand Filter | BOD5 and TSS removal Reduction in size of SAS; up to two foot reduction in depth of naturally occurring pervious material Secondary treatment prior to BSF required Approval: June 26, |
| | | | | 2012 |
| Recirculating Sand Filters | Recirculating Sand Filter (RSF) <10,000 GPD | Generic | Sand Filter | BOD5, TSS, and Nitrogen removal Up to 50% reduction in size of SAS; up to two foot reduction in separation to groundwater; up to two foot reduction in depth of naturally occurring pervious material Pressure distribution required Approval: March 10, 2008 |
| AdvanTex Treatment Systems | AX20-RT, AX25-RT, AX20 and AX100 <10,000 GPD | Orenco Systems, Inc. 814 Airway Avenue Sutherlin, OR 97479 | Secondary Treatment Unit Textile media aerobic treatment | BOD5 and TSS removal For 6 bedrooms or less, AX20 exempt from Title 5 Septic System requirements Approval: April 19, 2013 |
| Aerobic Recovery System(TM) Septic Restoration Process (formerly Aero- Stream) | Models 101, 102, 103 and 104 <2,000 GPD | Aero-Stream LLC On-Site Treatment Systems(TM) W300 N7706 Christine Lane Hartland, WI 53029 | SAS Aeration with Bacterial Augmentation | Restoration of failed SAS Approval: February 2, 2016 |

| Technology | Model(s) | Company | Technology Description | Approved Use |
|--|---|--|--|--|
| Amphidrome | Amphidrome Process <10,000 GPD | F.R. Mahony & Associates, Inc. 273 Weymouth Street Rockland, MA 02370 | Secondary Treatment Unit: Submerged Attached-Growth Sequencing Bioreactor | BOD5, TSS, and Nitrogen removal Exempt from the requirements for a standard Title 5 septic tank designed in accordance with 310 CMR 15.223(1) and 15.224 Approval: November |
| | | Aquapoint.3 LLC | | 5, 2012 BOD ₅ and TSS |
| Bioclere | 16, 22, 24, and 30 series | 39 Tarkiln Place New Bedford, MA 02745 | Secondary Treatment Unit: Trickling Filter | removal Approval: November 5, 2012 |
| BUSSE-MF System | Models B-220, 440, 660, 880, 1000, 1500, 2000 <2,000 GPD | Busse Green Technologies Inc. 1101 South Euclid Ave. Oak Park, IL 60304 | Secondary Treatment Unit: Activated sludge process and a membrane process (biological-filtration) | BOD5 and TSS removal The requirements in 310 CMR 15.223(1) 'Septic Tanks' and 310 CMR 15.224 'Multiple Compartment Tanks' do not apply to the System, unless the system design incorporates a separate existing or new septic tank Approval: November 5, 2012 |
| The Clean Solution Treatment System | 250ST-R3, 250ST- R4, 250-RX, 250PT- RX, C-SAN600, C- SAN100, C- SAN2500, C- SAN3000, C-SAN400 and C- SAN8000 | Wastewater Alternatives of New England, LLC 2 Whitney Road, Suite 10 Concord, NH 03301 | Secondary Treatment Unit: Submerged media attached-growth biological treatment unit | BOD5 and TSS removal Models 250ST-R3 and 250ST-R4 are exempt from Title 5 septic tank requirements Approval: November 5, 2012 |

| Technology | Model(s) | Company | Technology Description | Approved Use |
|---|---|---|--|--|
| Presby Enviro-Septic Wastewater Treatment System | Enviro-Septic System <10,000 GPD | Presby Environmental Inc. 143 Airport Road Whitefield, NH 03598 | Alternative SAS: Patented Sand Filter - Treatment with Disposal Perforated corrugated pipe wrapped with geotextile fabric, placed in a sand bed * Bed installations only | Alternative SAS with BOD/TSS reduction and 40% reduction in size with the effluent loading rates specified in Title 5. Depth to groundwater may be reduced by two feet. Depth of naturally occurring pervious material may be reduced by two feet. Has to meet siting requirements for upgrades (310 CMR 15.242) Approval: September 26, 2014 |
| Fuji Clean USA | CEN5 (<450 GPD), CEN7 (>450 – 630 GPD), CEN10 (>630 – 900 GPD) | Fuji Clean USA, LLC 41-2 Greenwood Road Brunswick, Maine 04011 | Secondary Treatment Unit: Primary sedimentation chamber, anaerobic treatment chamber (with submerged media), and aerobic contact / filtration chamber (with submerged media) | BOD, TSS, and Nitrogen Reduction Exempt from Title 5 septic tank requirements Approval: November 3, 2015 |
| Presby Advanced Enviro-Septic (Alternative SAS) Wastewater Treatment System | Advanced Enviro- Septic System <10,000 GPD | Presby Environmental Inc. 143 Airport Road Whitefield, NH 03598 | Alternative SAS: Patented Sand Filter - Treatment with Disposal Perforated corrugated pipe wrapped with geotextile fabric, placed in a sand bed * Bed installations only | Approved for facilities where a conventional T5 system with reserve area exists or can be built on-site in full compliance with T5. Alternative SAS with Secondary Treatment for 40% size reduction with the effluent loading rates specified in Title 5 (310 CMR 15.242). Approval: August 12, 2013 |

| Technology | Model(s) | Company | Technology Description | Approved Use |
|---|---|---|--|---|
| Presby Advanced Enviro-Septic (Alternative SAS with Treatment) Wastewater Treatment System | Advanced Enviro- Septic System Approved for residential installations <880 GPD | Presby Environmental Inc. 143 Airport Road Whitefield, NH 03598 | Alternative SAS: Patented Sand Filter - Secondary Treatment with Disposal Perforated corrugated pipe wrapped with geotextile fabric, placed in a sand bed * Bed installations only | Alternative SAS with Secondary Treatment for 50% size reduction with the effluent loading rates specified in Title 5 (310 CMR 15.242) 400 sq. ft. min. leaching area not applicable Has to meet siting requirements for upgrades Approval: December 17, 2013 |
| Eljen In-Drain Systems | Type B43 and A42 <10,000 GPD | Eljen Corporation 125 McKee Street East Hartford, CT 06108 | Alternative SAS, Patented Sand Filter: Geotextile Sand Filter | Alternative SAS in trench, bed, or gallery configurations with 40% reduction in size with effluent loading rates specified in Title 5 (310 CMR 15.242). Depth to groundwater may be reduced by two feet. Depth of naturally occurring pervious material may be reduced by two feet Approval: March 19, 2013 |
| Hoot Aerobic Systems | Hoot Aerobic H- Series H-500A, H-600A, H- 750A and H-1000A <1,000 GPD residential strength wastewater | Hoot Aerobic Systems Inc. 2885 Highway 14 East Lake Charles, LA 70607 | Secondary Treatment Unit: Pretreatment tank, aeration chamber and clarifier | BOD5 and TSS removal Exempt from septic tank requirements of 310 CMR 15.223 and 15.228 Approval: November 5, 2012 |

| Technology | Model(s) | Company | Technology Description | Approved Use |
|---|---|--|--|---|
| Jet BAT Media Wastewater Treatment Plants | J-500, J-500-PLT, J- 750, J-800-PLT, J- 1000, J-1250 and J- 1500 Approved for residential facilities only | JET Inc. 750 Alpha Drive Cleveland, OH 44143 | Secondary Treatment Unit: Primary settling zone, aerobic treatment with fixed media, and a secondary clarifying zone | BOD5 and TSS removal Models J-500 and J-750 exempt from septic tank requirements of 310 CMR 15.223 and 15.224 Flow<10,000 GPD Approval: August 31, 2017 |
| Low-Rate Intermittent Sand Filter | Low Rate Intermittent Sand Filter <10,000 GPD | Saneco, Inc. Box 9B 65 Eastern Avenue Essex, MA 01929 | Secondary Treatment Unit: Screened pump vault (in existing septic tank), Intermittent Sand Filter and pump chamber | BOD5 and TSS removal flow<10,000 GPD Approval: November 5, 2012 |
| MicroFAST | MicroFAST, High Treatment System Models MicroFAST® 0.5, 0.75, 0.9, 1.5, 3.0, 4.5 and 9.0; HighStrengthFAST® Treatment System Models HighStrength FAST® 1.0, 1.5, 3.0, 4.5 and 9.0 and NitriFAST® Treatment System Models NitriFAST® 0.5, 0.75, 1.0, 1.5, 3.0, 4.5 and 9.0 <10,000 GPD | Bio-Microbics, Inc. 8450 Cole Parkway Shawnee, KS 66227 | Secondary Treatment Unit: Primary settling zone, aerobic treatment with fixed media, and a secondary clarifying zone | BOD ₅ and TSS removal Approval: November 5, 2012 |
| Modular FAST | Modular FAST | Smith & Loveless, Inc. 14040 Santa Fe Trail Drive Lenexa, KS 66215 | Secondary Treatment Unit: Aerobic Treatment Unit with fixed media | BOD5 and TSS removal <10,000 GPD Approval: November 5, 2012 |

| Technology | Model(s) | Company | Technology Description | Approved Use |
|---|---|---|---|--|
| Perc-Rite Drip Dispersal System | Models: QM(WD) ASD-15, ASD-25, & ASD-40 | American Manufacturing Co. Inc. 22011 Greenhouse Rd Elkwood, VA 22718 | Alternative SAS: Subsurface drip dispersal | Equivalent to pressure distribution Can be placed in A, B, or C horizon a minimum of six inches below grade The System does not require a five foot over dig as indicated at 310 CMR 15.255(5). <10,000 GPD Approval: March 20, 2015 |
| Puraflo | Puraflo Peat Fiber Biofilter <10,000 GPD | Bord na Mona Environmental Products U.S. Inc. 4106 Bernau Avenue Greensboro, NC 27407 | Secondary Treatment Unit: Peat Fiber Biofilter (following septic tank), discharges via pressure distribution to SAS | BOD5 and TSS removal Approval: November 5, 2012 |
| SeptiTech Treatment Systems by Bio- Microbics of Maine, Inc. | SeptiTech 400, 550, 750, 1200, 1500, 3000, and SeptiTech Engineered Systems <10,000 GPD | SeptiTech, Inc. 220 Lewiston Road Gray, ME 04039 | Secondary Treatment Unit: Recirculating Trickling Filter | BOD ₅ and TSS removal Approval: July 8, 2013 |
| Simple-Septic Wastewater Treatment System | Simple-Septic <10,000 GPD | Presby Environmental Inc. 143 Airport Road Whitefield, NH 03598 | Alternative SAS: Patented Sand Filter Perforated corrugated pipe wrapped with geotextile fabric, placed in a sand bed | Alternative SAS - Patented Sand Filter for Treatment with Disposal -40% reduction in effective leaching area of SAS; -Two foot reduction of separation to groundwater; -Two foot reduction of naturally occurring pervious material Approval: September |
| Singulair Bio-Kinetic Wastewater Treatment System | Singulair and Singulair Green models <1,500 GPD | NORWECO, Inc. 220 Republic Street Norwalk, OH 44857 | Secondary Treatment Unit: Aerobic Treatment and Bio-Kinetic System | 11, 2014 BOD5 and TSS removal TN removal with TNT models Approval: November 7, 2012 |

| Technology | Model(s) | Company | Technology Description | Approved Use |
|---|---|--|--|---|
| Sludgehammer Alternative Treatment System | Models: 5-46 & 5-86 <2,000 GPD | Sludgehammer Group Ltd 336 Division Road Petoskey, MI 49770 | Septic Tank Aeration with Bacterial Augmentation | Restoration of failed SAS (BOD5 and TSS removal) <2,000 GPD |
| | | | | Approval: April 2, 2015 |
| Soilair | RF-3952TB, 3952MP, 5264MP, 5295MP, 9858MP, 15652MP, 21650MP, 29450MP <10,000 GPD | Geomatrix, LLC 114 Mill Rock Road East Old Saybrook, CT 06475 | SAS Aeration | Restoration of failed SAS |
| | | | | Approval: June 20, 2016 |
| Subsurface Drip Wastewater Disposal System | Drip Disposal System MODELS: Geoflow WASTEFLOW Classic WF16-4-24, WF16-4-12, WF – Special Order and Geoflow WASTEFLOW PC WFPC16-4-24, WFPC16-4-6, WFPC16-2-12, WFPC16-2-12, WFPC16-2-6 and WFPC-Special Order | Geoflow Inc. 500 Tamal Plaza, Suite 506 Corte Madera, CA 94925 | Alternative SAS: Drip Irrigation | Equivalent to pressure distribution <10,000 GPD Approval: March 20, 2015 |
| Waterloo Biofilter | Biofilter <10,000 GPD | Waterloo Biofilter System, Inc. 143 Dennis Street Rockwood, ONT, N0B 2K0 | Secondary Treatment Unit: Trickling Filter | BOD ₅ and TSS removal Approval: November 5, 2012 |
| White Knight Inoculator / Generator Alternative Treatment System | White Knight System | Knight Treatment Systems 281 County Route 51A Oswego, NY 13126 | Septic Tank Aeration with Bacterial Augmentation | Restoration of failed SAS BOD5 and TSS removal <10,000 GPD Approval: June 9, 2015 |

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I/A Technologies with Nitrogen Reduction Credit

A number of the technologies listed above have received nitrogen reduction credit as part of their technology approvals:

General Use Certification

Recirculating Sand Filters - Generic (25 mg/L TN) up to 10,000 GPD Ruck (19 mg/L TN) up to 2,000 GPD MicroFAST (19 or 25 mg/L TN) up to 2,000 GPD - residential flows only

Provisional Use Approvals

Advantex
Amphidrome
Bioclere for flows less than 2,000 gpd*
FAST
Mod FAST
SeptiTech
Singulair
Waterloo Biofilter
Nitrex

* Bioclere has reached limit for installed systems less than 2,000 gpd.

Piloting Use Approvals

Bio Barrier MBR WWT System
Nitrex Plus
OMNI-Cycle System
OMNI Recirculating Sand Filter System
RID Phosphorus Removal System
RUCK CFT

Using a Technology Not Currently Approved for Use in Massachusetts

You have several options if you are interested in using a technology not approved for use by MassDEP:

- For new construction, the technology manufacturer can apply to MassDEP for Piloting Approval, Provisional Use Approval, or for General Use Certification. Once the technology use approval has been issued, you can apply for approval to install it on your property. See MassDEP's <u>Technology Approval Process for I/A</u> <u>Systems</u>.
- You can apply to MassDEP for a site-specific approval to pilot a technology on your property. To pilot an I/A
 technology for new construction, including an increase in design flow, you must show that the property could
 support a conventional system; this provision provides for a back-up in case the piloted system fails.
- You can apply for a site-specific approval to pilot a technology on your property when it is used to replace an
 existing failed, failing or a nonconforming system, so long as there is no increase in design flow to the system.

For site-specific piloting, you must apply to both your local Board of Health and to MassDEP.

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